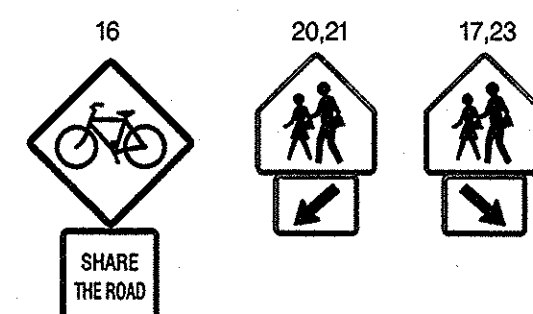
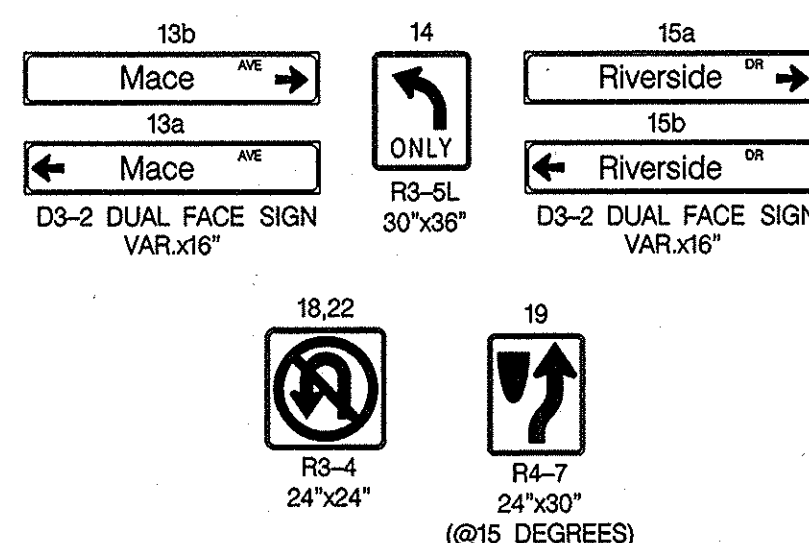


MD 150 IS ASSUMED TO RUN  
IN A EAST-WEST DIRECTION

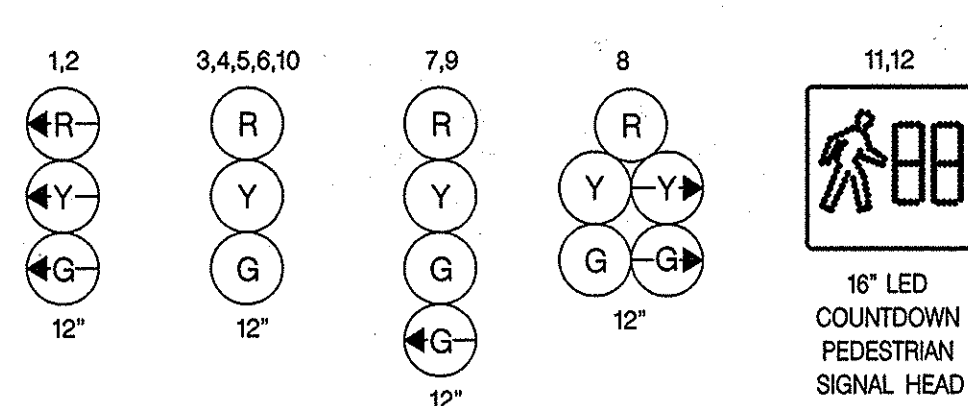
### EXISTING SIGNS TO BE RELOCATED



### PROPOSED SIGNS



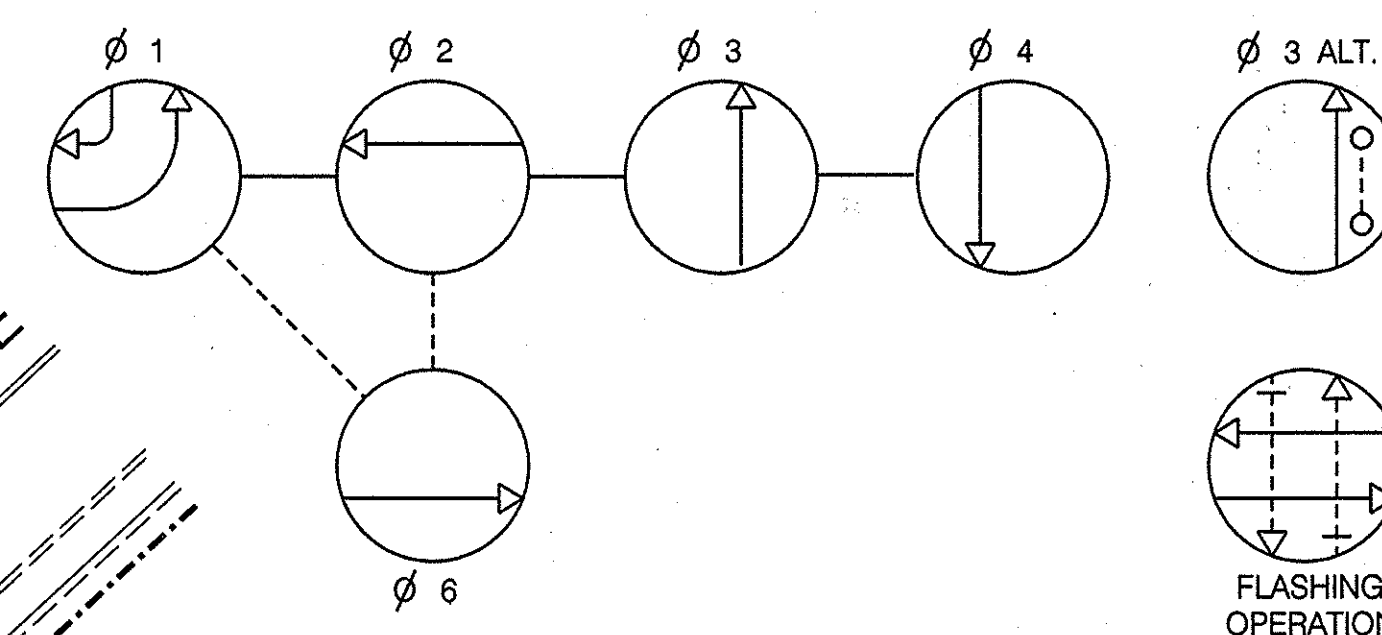
### PROPOSED SIGNAL HEADS



### PROPOSED VIDEO DETECTION CAMERA

A-E

### NEMA PHASING



PHASING NOTES:  
1.) PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.  
2.) PHASES ASSOCIATED BY A DASHED LINE MAY OPERATE CONCURRENTLY.

LEFT LANE PAVEMENT MARKING TABLE	
TRAFFIC CONTROL DEVICE	DISTANCE FROM STOPLINE
LEFT ARROW	150'
ONLY	200'
LEFT ARROW	250'

INTERCONNECT TO MARIE AVE.

MD 150 (EASTERN BLVD.)

RIGHT-OF-WAY

RIGHT-OF-WAY

SECONDARY 30'-3"

DETECTOR ZONE 'A'

DETECTOR ZONE 'B'

GUY WIRE 23'-6"  
GUY WIRE 24'-6"  
INTERCONNECT 21'-5"  
GUY WIRE 24'-11"  
GUY WIRE 26'-8"

CABLE INTERCONNECT 19'-7"  
GUY WIRE 21'-5"  
GUY WIRE 24'-11"  
GUY WIRE 26'-8"

CABLE SECONDARY 26'-0"  
SECONDARY 35'-10"  
PRIMARY 37'-10"  
PRIMARY 40'-0"  
PRIMARY 40'+

### GENERAL NOTES

- ALL EXISTING TRAFFIC SIGNAL EQUIPMENT BEING REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE WORK.
- PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR REACHING LESS THAN 18" FROM A 60" X 60" LEVEL LANDING AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
- PUSHBUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.
- LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SEC. 4E.09 AND FIG. 4E.2 AND THE NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE". IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATION UNTIL A DESIGN WAIVER IS OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.
- ALL ACCESSIBLE PEDESTRIAN EQUIPMENT SHALL BE DELIVERED TO THE SHA SIGNAL SHOP FOR TESTING AND PROGRAMMING PRIOR TO INSTALLATION. CONTACT MR. EDWARD RODENHIZER AT 410-787-7850 TO COORDINATE.
- ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSE SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS TO MEET CLEARANCE AS SPECIFIED IN MD 818.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
- ALL INTERNAL CABINET WIRING TO BE PERFORMED BY THE SIGNAL SHOP. THE CONTRACTOR SHALL DELIVER THE APS CENTRAL CONTROL UNIT TO THE SHOP FOR TESTING AND PROGRAMMING.
- ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO THE CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
- ALL DETECTABLE WARNING SURFACES SHALL BE "BRICK".
- REMOVE ALL EXISTING HANDHOLES AS WELL AS CAP AND ABANDON EXISTING CONDUIT.
- THE CONTRACTOR SHALL PLAN THE INSTALLATION OF THE MAST ARM IN ORDER TO MINIMIZE SIGNAL DOWN TIME.

### CONSTRUCTION DETAILS

- INSTALL 16.5 FT. MAST ARM POLE WITH A 70 FT. MAST ARM, SIGNAL HEADS, SIGNS, 2" WEATHER HEAD, RELOCATE EXISTING WARNING SIGNS, AND VIDEO DETECTION CAMERA (NOTE: INSTALL 2-3 IN. SCHEDULE 80, 90 DEGREE PVC CONDUIT BENDS)
- INSTALL 16.5 FT. MAST ARM POLE WITH A 35 FT. MAST ARM, SIGNAL HEADS, 2 IN. WEATHERHEAD, SIGN AND VIDEO DETECTION CAMERA (NOTE: INSTALL 2-3 IN. SCHEDULE 80, 90 DEGREE PVC CONDUIT BENDS) SEE NOTE 12
- EXISTING UNDERGROUND ELECTRICAL SERVICE CONDUIT TO BE DISCONNECTED AND REMOVED
- INSTALL BREAKAWAY PEDESTAL POLE WITH PEDESTRIAN SIGNAL HEAD PUSHBUTTON AND SIGNS (NOTE: INSTALL 1-3 IN. SCHEDULE 80, 90 DEGREE PVC CONDUIT BEND)
- INSTALL BASE MOUNTED CABINET AND CONTROLLER WITH ALL OTHER NECESSARY EQUIPMENT (NOTE: INSTALL 2-2 IN. AND 2-4 IN. SCHEDULE 80, 90 DEGREE PVC CONDUIT BENDS)
- INSTALL ELECTRICAL HANDHOLE
- INSTALL 3 IN. SCHEDULE 80 RIGID ELECTRICAL CONDUIT - TRENCHED
- INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL CONDUIT - SLOTTED
- INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL CONDUIT - TRENCHED
- INSTALL 3 IN. SCHEDULE 80 RIGID ELECTRICAL CONDUIT - SLOTTED
- INSTALL 2 IN. SCHEDULE 80 RIGID ELECTRICAL CONDUIT - SLOTTED
- INSTALL 2 IN. SCHEDULE 80 RIGID ELECTRICAL CONDUIT - TRENCHED
- EXISTING OVERHEAD ELECTRICAL SERVICE TO BE REMOVED BY OTHERS (BGE)
- INSTALL METER SERVICE PEDESTAL
- INSTALL 24 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
- INSTALL 12 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (24 IN. SPACING @ 45 DEGREES)
- REMOVE EXISTING GROUND MOUNTED SIGNS & SUPPORT, RELOCATE SIGNS TO NEW LOCATION
- REMOVE EXISTING POLE, MAST ARM AND ASSOCIATED EQUIPMENT
- REMOVE EXISTING PEDESTAL POLE AND ASSOCIATED EQUIPMENT
- REMOVE EXISTING STEEL POLE, SPAN WIRE AND SIGNS
- REMOVE EXISTING BASE MOUNTED CABINET AND CONTROLLER
- INSTALL GROUND MOUNTED SIGNS ON 4 IN. X 4 IN. WOOD SUPPORTS
- REMOVE EXISTING POLE, MAST ARM AND ASSOCIATED EQUIPMENT (REMOVE AND RELOCATE EXISTING WARNING SIGNS)
- INSTALL SIDEWALK RAMP WITH DETECTABLE WARNING SURFACE (SEE GI SHEET)
- CUT, CLEAN, GALVANIZE AND CAP MAST ARM
- INSTALL OVERHEAD INTERCONNECT CABLE FROM UTILITY POLE TO PROPOSED MAST ARM WITH 2 IN. WEATHERHEAD
- INSTALL PROPOSED 12-PAIR INTERCONNECT CABLE (SEE WIRING DIAGRAM)
- INSTALL 'ARROW' PAVEMENT MARKING (SEE TABLE)
- INSTALL 'ONLY' PAVEMENT MARKING (SEE TABLE)
- INSTALL 5 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING

### LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

AERIAL CABLE	A
ELECTRICAL	E
TELEPHONE	T
GAS	G
SEWER	S
WATER	W
CABLE TV	TV

**TRAFFIC CONCEPTS, INC.**  
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Gambrills, MD 21054  
(410) 923-7101  
FAX: (410) 923-6473  
EMAIL: TRAFFIC@TRAFFIC-CONCEPTS.COM

APPROVALS		REVISIONS	
TEAM LEADER		7-31-08	RECONSTRUCT SIGNAL WITH APSADA
ASST. DIV. CHIEF		7-31-08	SHA NO. 2018055
DIVISION CHIEF		9-30-05	B SPLIT SIDE STREET PHASING.
OFFICE DIRECTOR		7-29-07	A CHANGE TO LOOP DETECTORS RELOCATE 1/8" HEADS
		NEW	

**SHA** STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
**TRAFFIC SIGNAL PLAN**  
MD 150 (EASTERN BLVD.) AT MACE AVENUE /  
RIVERSIDE DRIVE  
ESSEX, MD

SCALE	1"=20'	DATE	5-1-70	CONTRACT NO.	
DESIGNED BY		COUNTY	BALTIMORE		
DRAWN BY		LOGMILE	03015003.02		
CHECKED BY		T.I.M.S. NO.	H 422		
F.A.P. NO.	NA	TOD NO.			
DRAWING NO.	TS-4678 C	SHEET NO.	1	OF	2

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DATE: Friday, August 01, 2008 AT 09:48 AM